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**SELF-STRUCTURING ANTENNA SYSTEM WITH MEMORY**Abstract of the Disclosure

A self-structuring antenna (SSA) system employs a memory device to store switch states for antenna configurations that are determined to produce acceptable antenna characteristics. Each antenna configuration corresponds to a respective combination of switch states known as a switch configuration. Using the stored antenna configurations as a starting point for the process of searching for an antenna configuration that produces acceptable antenna characteristics under particular operating conditions may reduce the search time.